APPENDIX B2:

SEMINOE ROAD EMISSIONS INVENTORY

Appendix B2 – Seminoe Road Emissions Inventory

The following is a list of the tables included within this appendix.

B2.1 Construction Emission Tables

B2.2 Production Emission Tables

Table B2.1.1
Seminoe Road Emissions Inventory
Well Pad Construction

TRC
605 Skyline Drive
Laramie, WY 82070
Phone: (307) 742-3843
Fax: (307) 745-8317

Project: Seminoe Road
Phase: Road Construction
Activity: Fugitive Particulate Emissions from Well Pad Construction
Engineer: Cassady Marshall
Date: 4/5/2004

Well Pad Area	Construction Activity TSP Emission Factor[1]	Construction Activity Duration[2]	Construction Activity Duration	Construction Activity Duration	Construction Activity Duration[3]	Emission Control Efficiency	PM_{10} Emissions (controlled)[4]	PM-2.5 Emissions (controlled)[5]
(acre)	(tons/acre-month)	(days/well pad)	(hours/day)	(days/week)	(months/year)	(%)	(lb/well)	(lb/well)
2.2	1.2	4	10	7	8	0	253.44	66.88
					Well Pad Construction Emissions (lb/day/well)		63.36	16.72
					Well Pad Construction Emissions (lb/hr/well)		6.34	1.67

[1] AP-42 (EPA, 1995), Section 13.2.3, "Heavy Construction Operations".

[2] Days per well estimated by TRC.

[3] Construction occurs 8 months per year, March -October.

[4] AP-42 (EPA, 1998), Section 13.2.2 "Unpaved Roads", Background Document. Assuming that 36% of the TSP is in the PM_{10} size range, monthly emissions converted to daily and hourly emissions based on 30-day month.

[5] AP-42 (EPA, 1998), Section 13.2.2 "Unpaved Roads", Background Document. Assuming that 9.5% of the TSP is in the $PM_{2.5}$ size range, monthly emissions converted to daily and hourly emissions based on 30-day month.

Table B2.1.2
Seminoe Road Emissions Inventory
Resource Road Construction

TRC
605 Skyline Drive
Laramie, WY 82070
Phone: (307) 742-3843
Fax: (307) 745-8317

Project: Seminoe Road
Phase: Road Construction
Activity: Fugitive Particulate Emissions from Resource Road Construction
Engineer: Cassady Marshall
Date: 4/5/2004

Resource Road Area[1]	Construction Activity TSP Emission Factor[2]	Construction Activity Duration[3]	Construction Activity Duration	Construction Activity Duration	Construction Activity Duration[4]	Emission Control Efficiency	PM-10 Emissions (controlled)[5]	PM-2.5 Emissions (controlled)[6]
(acres)	(tons/acre-month)	(days/pad)	(hours/day)	(day/week)	(months/year)	(%)	(lb/pad)	(lb/pad)
2.4606	1.2	4	10	7	8	0	283.46	74.80
					Resource Road Construction Emissions (lb/day/well)		70.87	18.70
					Resource Road Construction Emissions (lb/hr/well)		7.09	1.87

[1] Construction Area = 0.58 mi/well x 35-ft ROW = 2.4606 acres.

[2] AP-42 (EPA, 1995), Section 13.2.3, "Heavy Construction Operations".

[3] Days per well estimated by TRC.

[4] Construction occurs 8 months per year, March -October.

[5] AP-42 (EPA, 1998), Section 13.2.2 "Unpaved Roads", Background Document. Assuming that 36% of the TSP is in the PM_{10} size range, monthly emissions converted to daily and hourly emissions based on 30-day month.

[6] AP-42 (EPA, 1998), Section 13.2.2 "Unpaved Roads", Background Document. Assuming that 9.5% of the TSP is in the $PM_{2.5}$ size range, monthly emissions converted to daily and hourly emissions based on 30-day month.